Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade K			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NM	SCI.K.I.I.I.1	Use observation and questioning skills in science inquiry (e.g., What happens when something is pushed or pulled?).
Finding the Center of Gravity Using Rulers	NM	SCI.K.I.I.I.2	Ask and answer questions about surroundings and share findings with classmates.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 1			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NM	SCI.1.I.I.I.1	Make observations, develop simple questions, and make comparisons of familiar situations (e.g., What does the seed look like when it starts to grow?).
Finding the Center of Gravity Using Rulers	NM	SCI.1.I.I.II.1	Know that simple investigations do not always turn out as planned.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 2			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NM	SCI.2.I.I.I.4	Follow simple instructions for a scientific investigation.
Finding the Center of Gravity Using Rulers	NM	SCI.2.I.I.II.2	Make accurate observations and communicate findings about investigations.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 3			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.
Finding the Center of Gravity Using Plumb Lines	NM	SCI.3.I.I.II.2	Understand that predictions are based on observations, measurements, and cause-and-effect relationships.

Changing the Center of Gravity Using Moment Arms	NM	SCI.3.I.I.I.4	Collect data in an investigation and analyze those data.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	NM	SCI.4.I.I.II.1	Communicate ideas and present findings about scientific investigations that are open to critique from others.
Finding the Center of Gravity Using Plumb Lines	NM	SCI.4.I.I.II.1	Communicate ideas and present findings about scientific investigations that are open to critique from others.
Changing the Center of Gravity Using Moment Arms	NM	SCI.4.I.I.II.1	Communicate ideas and present findings about scientific investigations that are open to critique from others.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NM	SCI.5.I.I.I.1	Plan and conduct investigations, including formulating testable questions, making systematic observations, developing logical conclusions, and communicating findings.
Jet Propulsion	NM	SCI.5.I.I.III.3	Make predictions based on analyses of data, observations, and explanations.
Vectoring	NM	SCI.5.I.I.I.1	Plan and conduct investigations, including formulating testable questions, making systematic observations, developing logical conclusions, and communicating findings.
Vectoring	NM	SCI.5.I.I.III.3	Make predictions based on analyses of data, observations, and explanations.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NM	SCI.6.I.I.II.2	Understand that scientific investigations use common processes that include the collection of relevant data and observations, accurate measurements, the identification and control of variables, and logical reasoning to formulate hypotheses and explanations.

Vectoring	NM	SCI.6.I.I.I.3	Justify predictions and conclusions based on data.
Vectoring	NM	SCI.6.I.I.II.2	Understand that scientific investigations use common processes that include the collection of relevant data and observations, accurate measurements, the identification and control of variables, and logical reasoning to formulate hypotheses and explanations.
Center of Gravity, Pitch, Yaw	NM	SCI.6.I.I.II.2	Understand that scientific investigations use common processes that include the collection of relevant data and observations, accurate measurements, the identification and control of variables, and logical reasoning to formulate hypotheses and explanations.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NM	SCI.7.I.I.I.2	Use models to explain the relationships between variables being investigated.
Jet Propulsion	NM	SCI.7.I.I.II.3	Analyze and evaluate scientific explanations.
Jet Propulsion	NM	SCI.7.I.I.III.3	Select and use an appropriate model to examine a phenomenon.
Vectoring	NM	SCI.7.I.I.II.2	Critique procedures used to investigate a hypothesis.
Vectoring	NM	SCI.7.I.I.II.3	Analyze and evaluate scientific explanations.
Center of Gravity, Pitch, Yaw	NM	SCI.7.I.I.I.2	Use models to explain the relationships between variables being investigated.
Fuel Efficiency	NM	SCI.7.I.I.II.3	Analyze and evaluate scientific explanations.
Exploring the Extreme			
2003 Science			
Content Standards			
New Mexico Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	NM	SCI.8.I.I.III.2	Create models to describe phenomena.
Vectoring	NM	SCI.8.I.I.II.3	Know that scientific knowledge is built on questions posed as testable hypotheses, which are tested until the results are accepted by peers.

Fuel Efficiency	NM	SCI.8.I.I.III.1	Use mathematical expressions and techniques to explain data and observations and to communicate findings (e.g., formulas and equations, significant figures, graphing, sampling, estimation, mean).